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ALBERTA PETROLEUM STATISTICS 1970 - 1974

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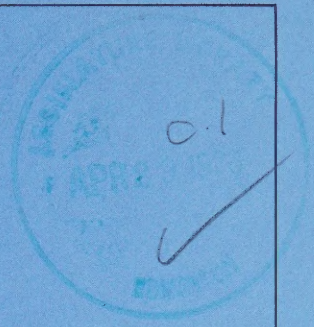

ALBERTA PETROLEUM STATISTICS
1970 - 1974

March, 1976

Bureau of Statistics
Alberta Treasury
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Edmonton, Alberta
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SYMBOLS

p	preliminary figures
-	nil or zero
( )	a negative quantity
...	figures not applicable

NOTE

Components may not add to totals due to rounding.

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INTRODUCTION

The purpose of this publication, the first in an annual series, is to present comprehensive data dealing with the petroleum industry in Alberta. The Bureau of Statistics has prepared this publication recognizing the need for a document which consolidates various quantitive data from several sources, each related to specific activities of the industry.

The information as presented shows the supply and disposition of petroleum, and the supply and consumption of final products in Alberta. The publication includes statistics on the recovery of petroleum (crude oil), the refinery supply of petroleum products, shipments of those products and the consumption of products in Alberta. Efforts have been made to ensure that the users of this information are able to trace the data through the various stages and to relate each stage to the entire series. The statistics shown cover the period 1970-1974.

The sources of the information in this publication consist of publications prepared by the Energy Resources Conservation Board, Statistics Canada, Alberta Energy and Natural Resources and the Canadian Petroleum Association.

PUBLICATION CONTENT

(1) Alberta Petroleum Development - Product Flow Chart

The flow chart located on page V, diagrams the flow of petroleum from its natural state through to consumption of final products in Alberta. For each component of the flow chart, a corresponding statistical table is provided within the publication. The numbers that are shown within the flow chart components identify the appropriate statistical tables within the publication.

(2) Section I - The Recovery, Supply and Shipments of Petroleum

The first section consists of statistical Tables 1-4, which provide data related to Alberta's crude oil reserves (conventional and synthetic), drilling activities, supply of crude oil (production and receipts from other provinces), and shipments of crude oil to markets, for the years 1970-1974.

(3) Section II - Refinery Supply of Petroleum Products

This section is comprised of Tables 5-21, and deals with the supply of all products by Alberta refineries. The supply is made up of refinery production, receipts of finished products from other provinces, exchanges among refineries in Alberta and imports to Alberta of products from the U.S.A.. Each table in this section concerns itself with a different product that is supplied in Alberta.

(4) Section III - Shipments of Refined Petroleum Products

Section III (Tables 22-38), shows the shipments of Alberta products to the various markets. The total shipments of a product, in each table, are comprised of deliveries to other provinces, exports to the U.S.A., exchanges among refineries in Alberta, quantities used by the refineries, losses and sales in Alberta.

NOTE: Tables in Sections II and III should be considered jointly in order to establish a "net transfer" of Alberta's supply and shipments of refined products. For example, in 1974 Alberta refineries received about 0.2 million barrels of motor gasoline from other provinces. During the same period, Alberta refineries shipped nearly 9.4 million barrels of motor gasoline to other provinces. The difference of 9.2 million barrels shipped out is the net transfer of motor gasoline. The same procedure may be applied to imports and exports of products.

(5) Section IV - Consumption of Petroleum Products

Tables 39-48 comprise the final section of the petroleum statistical series. Statistics appearing in each table relate to the sales of refined products by type of consumer.

(6) Graphs

Most sections contain a graph that is intended to summarize the data within that section.

(7) Appendix

The appendix contains statistical information complementing the previous four sections. Among the information are 1975 estimates for selected Alberta petroleum statistics. These estimates were prepared by the Bureau of Statistics and are based upon data for the first nine months of 1975. In addition, selected Canadian petroleum data has been included in the appendix.

(8) Definitions

Preceding each section of this publication is a set of definitions applicable to the terminology used within the section. These should be referred to for any explanations regarding the classifications used throughout the tables.

PUBLICATION LIMITATIONS

Two limitations are found in the statistical series presented in this publication which do not significantly affect the statistical quality. These limitations are explained as follows:

(1) Volume Differences Between Sections I and II

When comparing the total volume of crude oil shipped to Alberta refineries (Section I) to the total volume of refinery production (Section II), for each year, a difference is encountered that cannot be specifically accounted for. For example, in 1974, 65,064,000 barrels of crude oil and equivalent were delivered to Alberta's refineries. The total volume of refinery production of all products was 66,620,000 barrels - a difference of 1,556,000 barrels or 2.4 percent. Two possible reasons to account for this difference are:

(a) Use of Data from Two Different Sources:

The data in Section I were obtained from the Energy Resources Conservation Board, while Statistics Canada publications were used for information found in Section II.

The E.R.C.B. statistics are obtained from reports that are summaries of information provided to the Board by provincial producers as a requirement under the Oil and Gas Conservation Act of Alberta. Statistics Canada obtains their information, as found in Section II, from surveys of refineries and other manufacturers.

(b) Variance Due to Refinery Processing:

The actual processing of crude oil into finished products could account for part of the difference between the volumes. The volume of crude oil is affected by refining and blending processes, with the mixtures of chemicals and additives. It is not possible to determine the exact extent to which these factors may have had on the differences in reported volumes.

(2) Limited Consumption Detail for Certain Products

For most of the refined products there are detailed statistics available for consumption in Alberta (Section IV). In the case of propane and propane mixes, butanes and butane mixes, petrochemical feedstocks, naptha specialties, still gas, coke and "other products", there are no detailed statistics for consumption, by type of customer. This type of information is not available from manufacturing surveys or other sources.

The Bureau of Statistics welcomes your comments and enquiries with regard to this publication. The Bureau will prepare any updated information related to this publication, upon request, wherever possible.

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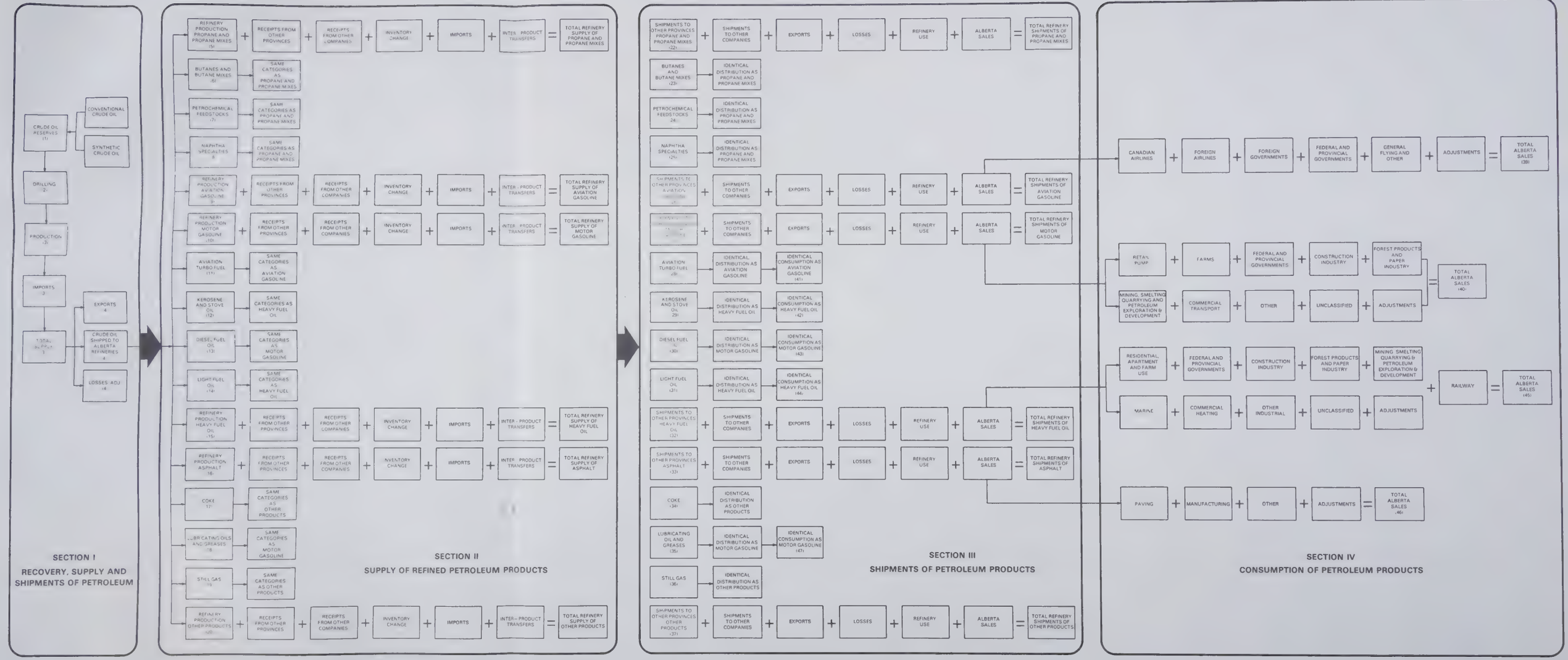
ALBERTA PETROLEUM DEVELOPMENT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SECTION I

RECOVERY, SUPPLY AND SHIPMENTS OF PETROLEUM

DEFINITIONS

SECTION I - RECOVERY, SUPPLY AND SHIPMENTS OF PETROLEUM

Reserves:[1]

(1) Proved Reserves - are those reserves that have been specifically delineated, and estimated, by scientific data and which can be reasonably counted upon.

(2) Remaining Recoverable Reserves - are those reserves that are considered recoverable under current technology and economic conditions, and have not been produced by a particular point in time.

(3) Initial Recoverable Reserves - are those reserves comprised of the cumulative production to a particular date plus the remaining reserves at that date.

(4) Ultimate Reserves - are those reserves that comprise the total stock of petroleum, within and beyond, present economic and technological reach.

(5) Recoverable Conversion by Volume - Synthetic Crude Oil - refers to the existing rate of conversion of crude bitumen to synthetic crude oil, by mining operations. The conversion rate is estimated at about 70 per cent, by the ERCB, at existing levels of technology. The remaining 30 per cent is beyond present mining recovery techniques.

(6) Crude Bitumen - often referred to as 'oil sands', this is a viscous, pitch-like substance, that occurs naturally in the oil sands deposits in Alberta and is not recoverable from a well but through mining operations.

Drilling:[2]

(7) Exploratory Drilling - refers to locating oil fields or pools, or testing for new fields or pools, in areas that have not been designated as producing areas.

(8) Outpost Drilling - is undertaken with the expectation of extending the productive area of a partly developed pool. This type of drilling may be considered as a "lower risk" form of exploratory drilling.

(9) Developmental Drilling - takes place within a proved (or established) area of an oil reservoir to a depth known to be productive.

Supply and Shipments:[3]

(10) Crude Oil (Petroleum) - is a mixture mainly of pentanes (see definition below) and heavier hydrocarbons that may be contaminated with sulphur compounds. It is recoverable from a well and is liquid at the conditions under which it is measured. Crude oil includes all other hydrocarbon mixtures so recovered except raw gas or condensate.

(11) Synthetic Crude Oil - means a mixture of pentanes and heavier hydrocarbons that may be contaminated with sulphur compounds. It is derived from crude bitumen and is liquid at the conditions under which it's volume is measured. Synthetic crude oil includes all other hydrocarbon mixtures so derived.

(12) Pentanes - means a mixture of hydrocarbons that is derived from the methane series and is liquid at the conditions under which it is measured.

(13) Condensate - is a mixture of pentanes and heavier hydrocarbons that may be contaminated with sulphur compounds and is recoverable at a well and is gaseous in its virgin reservoir state but liquid at the conditions under which it is measured.

(14) Pentanes Plus - is a mixture mainly of pentanes and heavier hydrocarbons which ordinarily may contain some butanes and is obtained from processing of raw gas, condensate or crude oil.

(15) Crude Oil and Equivalent - includes conventional crude oil, synthetic crude oil, condensate and pentanes plus.

(16) Value of Production - is determined by applying the average wellhead price (excluding transportation costs) to the volume produced of crude oil and condensate. The value of production for synthetic crude oil is the Edmonton laid down price (delivered price); for pentanes plus the value of production is the value received at the plant gate.

(17) U.S.A. Districts - are the administrative regions as designated by the U.S. federal authorities with respect to crude oil and natural gas deliveries:

District I - the eastern seaboard states.
District II - the east-central states.
District III - the southern states.
District IV - the west-central states.
District V - the western seaboard states.

(18) Inventory Change - is the increase or decrease in the volumes of crude oil inventory related to the field, plant, Alberta transporters and ex-Alberta pipelines.

(19) Metering Differences - are adjustments to the volumes of crude oil shipped, resulting from the difference in actual deliveries and metering records.

(20) Inter-Provincial Pipeline Adjustments - are the losses and adjustments occurring in transport of crude oil leaving Alberta for other provinces.

Source:
(1) Energy Resources Conservation Board, "Reserves of Crude Oil, Gas, Natural Gas Liquids and Sulphur", Province of Alberta, Annual.
(2) Canadian Petroleum Association, "1974 Statistical Year Book", Annual.
(3) Energy Resources Conservation Board, "Alberta Oil and Gas Industry, Annual and Cumulative Statistics", 1974.

GRAPH 1
DISPOSITION OF ALBERTA PETROLEUM, 1970 - 1974

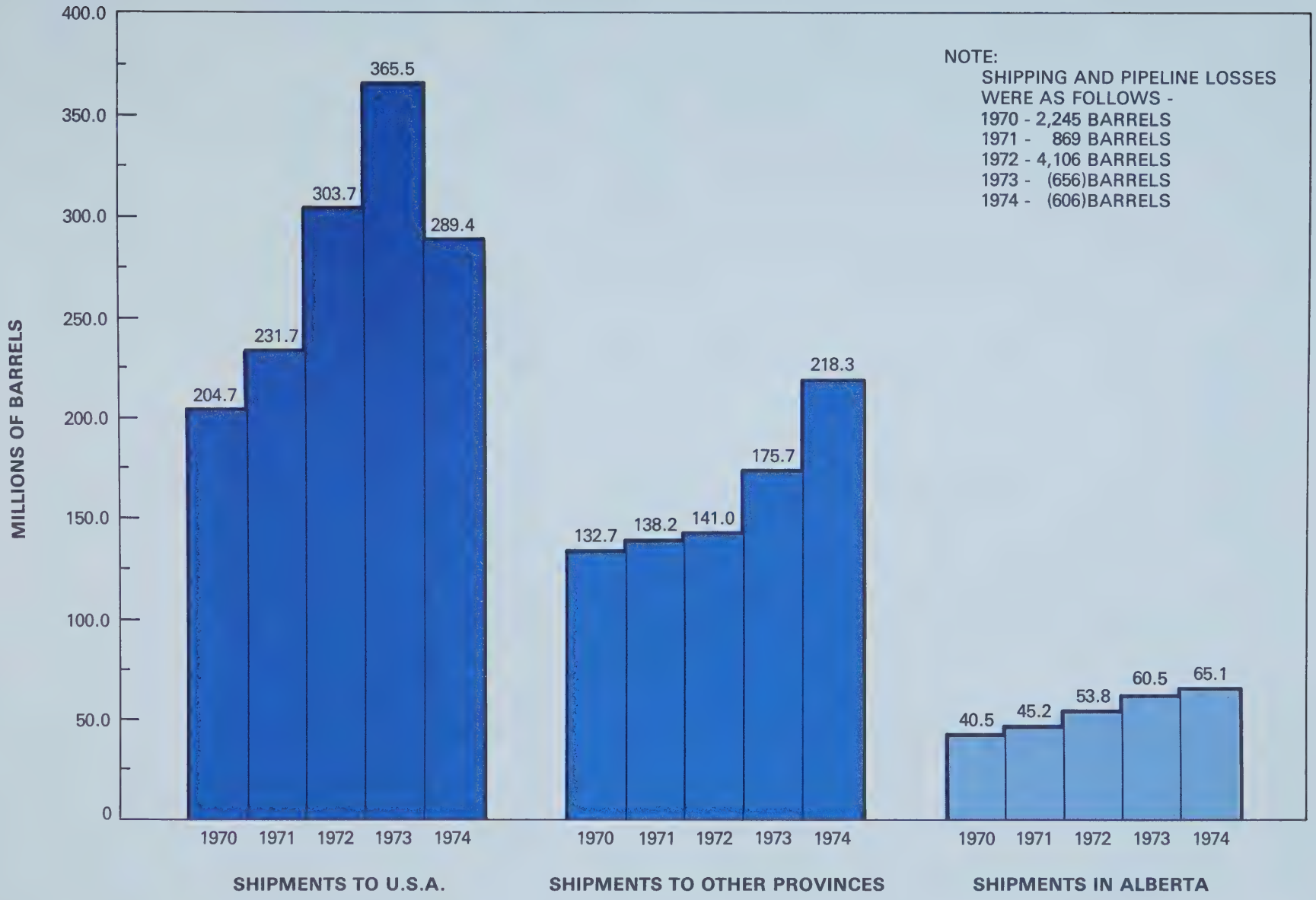


TABLE 1
PETROLEUM RESERVES
ALBERTA, 1970 - 1974
(Millions of Barrels)

	1970	1971	1972	1973	1974
PROVED RESERVES					
Conventional Crude Oil:					
Remaining Reserves of Previous Year	7,696	7,602	7,385	7,086	6,620
Reserve Additions in Current Year	232	138	126	58	242
Production of Crude Oil In Current Year	(326)	(355)	(425)	(524)	(497)
REMAINING RECOVERABLE RESERVES	7,602	7,385	7,086	6,620	6,365
Synthetic Crude Oil: (1)					
Remaining Recoverable Crude Bitumen	37,900	37,900	37,900	37,900	37,900
Recoverable Conversion By Volume	.702	.702	.702	.702	.702
Initial Recoverable Synthetic Crude Oil	26,600	26,600	26,600	26,600	26,600
Cumulative Production	(28)	(44)	(62)	(80)	(97)
REMAINING RECOVERABLE SYNTHETIC CRUDE OIL	26,572	26,556	26,538	26,525	26,503
TOTAL PROVED RESERVES	34,174	33,941	33,624	33,145	32,868
ULTIMATE RESERVES (2)					
Conventional Crude Oil	20,000	20,000	20,000	20,000	18,000
Synthetic Crude Oil	250,000	250,000	250,000	250,000	250,000
TOTAL ULTIMATE RESERVES	270,000	270,000	270,000	270,000	268,000

NOTES: (1) Synthetic crude oil reserve estimates are based upon the use of mining techniques only, under current or foreseeable conditions.
(2) The ultimate reserve estimates are derived by a rigorous technical methodology, therefore, only the final results have been shown here. Details are available from the listed source.

SOURCE: Alberta Energy Resources Conservation Board, "Reserves of Crude Oil, Gas, Natural Gas Liquids and Sulphur", Province of Alberta, Annual.

TABLE 2
PETROLEUM DRILLING ACTIVITY
ALBERTA, 1970 - 1974 (1)

	1970	1971	1972	1973	1974
FOOTAGE DRILLED: ('000 ft.)					
Exploration	4,248	4,025	4,600	5,413	4,673
Outpost	216	287	550	498	528
Development	3,417	3,713	4,927	6,735	6,793
TOTAL	7,881	8,025	10,077	12,646	11,994
CRUDE OIL WELL COMPLETIONS:					
Exploration	55	93	55	101	69
Outpost	3	18	14	8	13
Development	243	251	440	472	553
TOTAL	301	362	509	581	635
PRODUCING OIL WELLS: (No.)	13,971	14,065	14,168	14,368	14,819
DRILLING RIGS OPERATING: (No.)	134	152	161	172	135
GEOPHYSICAL CREWS OPERATING: (No.)	34	20	18	19	24
EXPENDITURES BY INDUSTRY: (2) ($ millions)					
Exploration	280.7	272.2	297.7	341.3	416.2
Development	327.7	376.1	333.0	346.9	455.4
TOTAL	608.4	648.3	630.7	688.2	871.6

SOURCES: (1) Alberta Energy and Natural Resources.
(2) Canadian Petroleum Association, "Statistical Year Book, 1974".

TABLE 3
TOTAL SUPPLY OF CRUDE OIL & EQUIVALENT
ALBERTA, 1970 - 1974
(Thousands of Barrels)

	1970	1971	1972	1973	1974
ALBERTA PRODUCTION					
Conventional Crude Oil	325,440	355,177	424,431	522,241	497,646
Synthetic Crude Oil	12,081	15,540	18,820	18,446	16,880
Condensate	720	784	969	1,049	911
Pentanes Plus	41,895	44,500	58,338	59,325	56,713
TOTAL PRODUCTION	380,136	416,001	502,558	601,061	572,150
RECEIPTS FROM OTHER PROVINCES:	15	-	-	-	-
TOTAL SUPPLY	380,151	416,001	502,558	601,061	572,150
VALUE OF PRODUCTION: ($'000)	991,271	1,189,089	1,446,033	2,117,608	3,340,246

SOURCE: Alberta Energy Resources Conservation Board, "Alberta Oil and Gas Industry, Annual and Cumulative Statistics", 1970 - 1974.

TABLE 4

SHIPMENTS OF ALBERTA PETROLEUM

1970 - 1974

(Thousands of Barrels)

	1970	1971	1972	1973	1974
SHIPMENTS TO U.S.A.					
District I	29,108	34,842	39,878	45,983	34,750
District II	81,786	101,719	149,101	203,822	161,048
District IV	18,030	20,497	19,418	25,948	23,290
District V	75,793	74,653	95,273	89,741	70,338
TOTAL U.S.A.	204,717	231,711	303,670	365,494	289,426
Value of Shipments ($'000)	538,406	662,694	880,643	1,286,539	1,687,354
SHIPMENTS TO OTHER PROVINCES					
British Columbia	20,333	21,263	23,351	29,532	32,475
Saskatchewan	20,711	17,349	13,760	15,371	17,620
Manitoba	7,205	7,192	8,865	8,952	9,038
Ontario	84,413	92,383	94,995	113,381	135,608
Quebec and Maritimes	-	-	-	8,455	23,525
TOTAL OTHER PROVINCES	132,662	138,187	140,971	175,691	218,266
Value of Shipments ($'000)	348,901	395,215	408,816	618,432	1,272,491
SHIPMENTS IN ALBERTA					
Crude Petroleum Refiners	40,308	44,980	53,234	59,663	63,820
Petroleum Blending Plants	219	254	577	869	1,244
TOTAL ALBERTA	40,527	45,234	53,811	60,532	65,064
Value of Shipments ($'000)	106,586	129,369	156,052	175,543	379,323
LOSSES AND ADJUSTMENTS					
Inventory Adjustment	1,312	212	3,422	23	(60)
Pipeline Metering Differences	257	(224)	281	(846)	(629)
Inter-Provincial Adjustment	676	881	403	167	83
TOTAL LOSSES & ADJUSTMENTS	2,245	869	4,106	(656)	(606)
Value of Losses and Adjustments ($'000)	5,904	2,485	11,907	(2,309)	(3,533)
TOTAL SHIPMENTS	380,151	416,001	502,558	601,061	572,150
TOTAL VALUE ($'000)	999,797	1,189,763	1,457,418	2,082,823	3,342,701

NOTE: The values of production shown here are approximate and do not coincide with the total value shown in Table 3, due to a variation in the average prices used in both cases.

SOURCE: Alberta Energy Resources Conservation Board, "Alberta Oil and Gas Industry, Annual and Cumulative Statistics, 1974".

SECTION II

SUPPLY OF REFINED PETROLEUM PRODUCTS

DEFINITIONS

SECTION II - SUPPLY OF REFINED PETROLEUM PRODUCTS

(1) Refinery Production - includes all volumes of petroleum products that are manufactured as well as those obtained by blending.

(2) Receipts From Other Provinces - refers to the volumes of refined products that were received by Alberta refineries from refiners in other provinces.

(3) Receipts From Other Companies - refers to the volumes of refined products exchanged by refineries within Alberta, usually to meet their own demand requirements.

(4) Inventory Change - is the difference in the volumes of the opening and closing inventory levels. A negative sign has been used in this publication to denote a greater closing inventory than opening inventory only as a means of showing that the amount was not directly shipped to customers but added to stocks for that period.

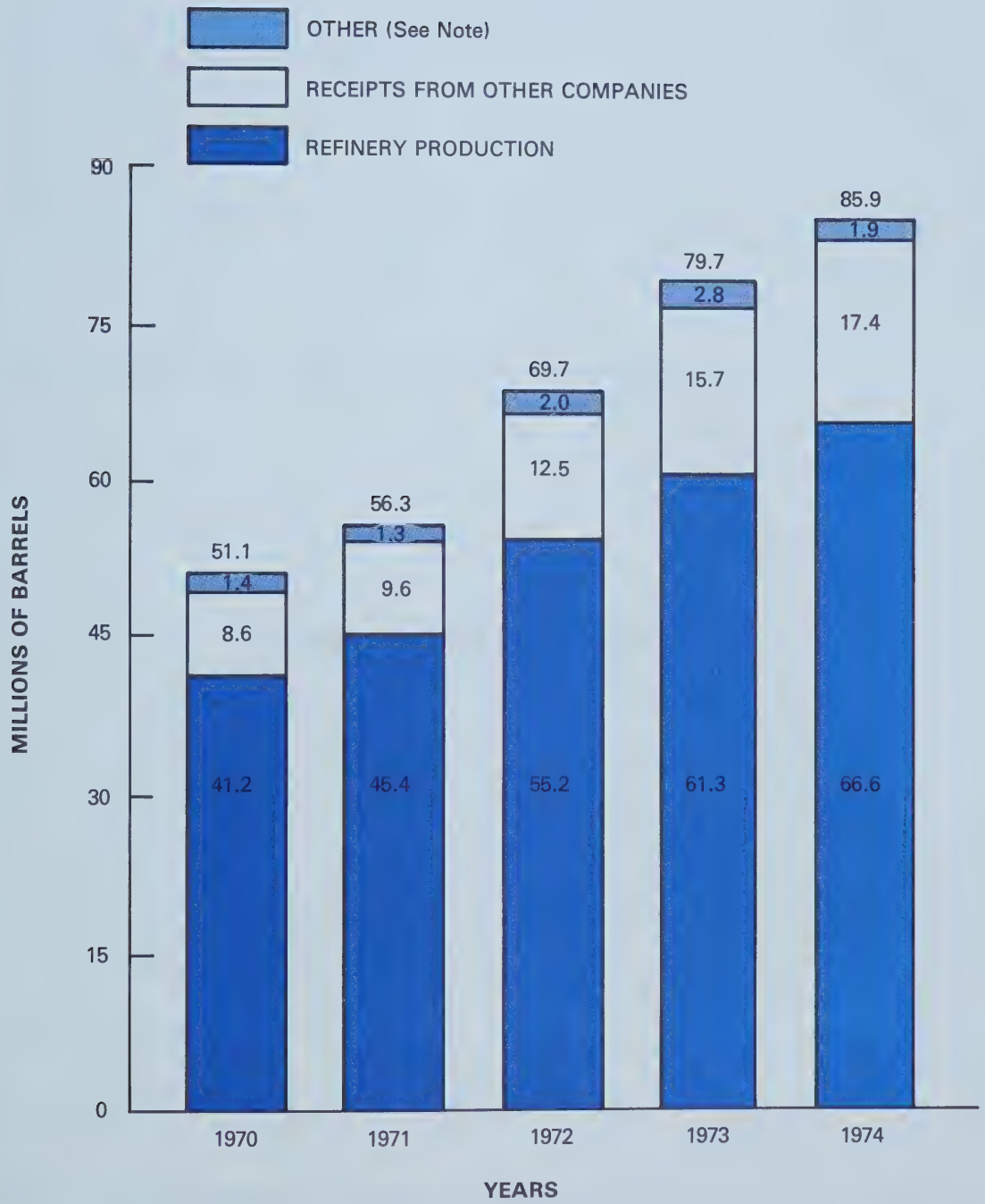
(5) Imports - are those volumes of refined petroleum products received by Alberta from locations outside Canada.

(6) Inter-Product Transfer - these are volumes of refined petroleum products that have been substituted for other similar products, with a minimum of re-processing involved.

Source: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

GRAPH 2

REFINERY SUPPLY OF ALL PRODUCTS, ALBERTA, 1970 - 1974



NOTE: "Other" includes the volume of Imports, Receipts from Other Provinces and Inventory Change. Refer to Table 21 for details.

TABLE 5

REFINERY SUPPLY OF PROPANE AND PROPANE MIXES

ALBERTA, 1970 - 1974

(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	11,800	141,700	503,700	583,700	724,300
Receipts from Other Provinces	723	-	-	-	-
Receipts from Other Companies	-	-	13,517	-	650
Inventory Change	-	(4,200)	(500)	1,800	(3,400)
Imports	-	-	-	-	-
Inter-Product Transfers	21,022	20,079	-	5,274	3,761
TOTAL SUPPLY	33,545	157,579	516,717	590,774	725,311

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 6

REFINERY SUPPLY OF BUTANE AND BUTANE MIXES

ALBERTA, 1970 - 1974

(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	196,230	96,009	47,456	11,463	9,296
Receipts from Other Provinces	-	19,902	-	-	2,905
Receipts from Other Companies	127,219	16,740	36,964	1,500	308,562
Inventory Change	-	-	(5,267)	3,279	(6,192)
Imports	-	-	-	-	-
Inter-Product Transfers	(21,022)	(36,735)	(5,493)	21,762	(11,171)
TOTAL SUPPLY	302,427	95,916	73,660	38,004	303,400

SOURCE: Statistics Canada, "Refined Petroleum Products:, 45-004, Monthly.

TABLE 7
REFINERY SUPPLY OF PETROCHEMICAL FEEDSTOCKS
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	-	5,600	29,700	36,900	37,225
Receipts from Other Provinces	3,262	-	2,343	3,278	3,381
Receipts from Other Companies	-	-	-	-	-
Inventory Change	-	(2,200)	(1,400)	3,200	(100)
Imports	-	-	-	-	-
Inter-Product Transfers	-	-	3,391	-	-
TOTAL SUPPLY	3,262	3,400	27,252	43,378	40,506

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 8
REFINERY SUPPLY OF NAPTHA SPECIALTIES
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	17,848	25,313	68,224	65,856	81,629
Receipts from Other Provinces	53,060	57,505	42,699	31,141	28,447
Receipts from Other Companies	33,846	37,223	35,843	50,781	48,328
Inventory Change	344	187	(16,306)	1,994	(440)
Imports	2,877	1,100	1,300	656	2,427
Inter-Product Transfers	(1,455)	(235)	(497)	(611)	(446)
TOTAL SUPPLY	106,520	121,093	131,263	149,817	159,945

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 9
REFINERY SUPPLY OF AVIATION GASOLINE
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	291,181	215,277	256,646	342,067	313,716
Receipts from Other Provinces	23,164	27,844	23,292	120,352	19,969
Receipts from Other Companies	31,175	19,963	16,799	37,717	100,324
Inventory Change	13,634	9,548	(34,993)	(26,837)	20,633
Imports	-	-	-	-	-
Inter-Product Transfers	(3,925)	(265)	(470)	(32)	(168)
TOTAL SUPPLY	355,229	272,367	261,274	473,267	454,474

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 10
REFINERY SUPPLY OF MOTOR GASOLINE
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	18,847,137	20,434,626	24,937,520	28,461,706	30,202,747
Receipts from Other Provinces	272,681	636,851	200,009	935,233	165,090
Receipts from Other Companies	5,922,220	6,954,937	8,085,806	9,320,615	10,515,171
Inventory Change	378,165	235,560	(99,551)	152,254	(306,119)
Imports	5,761	5,309	-	-	-
Inter-Product Transfers	(462,874)	(754,949)	(22,586)	113,765	202,804
TOTAL SUPPLY	24,963,090	27,512,334	33,101,198	38,983,573	40,779,693

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 11
REFINERY SUPPLY OF AVIATION TURBO FUEL
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	1,858,408	1,955,853	2,370,961	2,744,955	3,360,139
Receipts from Other Provinces	17,968	7,011	4,959	275,688	63,126
Receipts from Other Companies	32,021	78,206	110,730	215,395	101,185
Inventory Change	16,296	(20,782)	(34,759)	(62,892)	(135,959)
Imports	-	104	-	90,913	-
Inter-Product Transfers	(1,054)	(11,702)	(1,394)	(40,107)	(1,407)
TOTAL SUPPLY	1,923,639	2,008,690	2,450,497	3,223,952	3,387,084

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 12
REFINERY SUPPLY OF KEROSENE & STOVE OIL
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	518,791	632,381	858,171	790,574	756,036
Receipts from Other Provinces	9,917	8,200	11,593	44,644	13,303
Receipts from Other Companies	170,275	201,391	250,679	282,945	334,757
Inventory Change	(4,077)	(45,606)	(92,729)	9,405	(27,895)
Imports	3,031	300	-	-	-
Inter-Product Transfers	343,425	348,989	290,476	105,752	179,099
TOTAL SUPPLY	1,041,362	1,145,655	1,318,190	1,233,320	1,255,300

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 13
REFINERY SUPPLY OF DIESEL FUEL OIL
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	9,116,373	10,006,236	13,136,543	14,237,276	15,568,703
Receipts from Other Provinces	162,315	299,404	195,619	662,389	168,473
Receipts from Other Companies	1,771,376	1,195,206	2,414,024	3,041,887	3,714,771
Inventory Change	(720,037)	(200,263)	21,904	(455,231)	(429,712)
Imports	1,193	1,905	-	293,338	-
Inter-Product Transfers	(267,120)	(155,801)	(16,352)	167,173	14,092
TOTAL SUPPLY	10,064,100	11,146,687	15,751,738	17,946,832	19,036,327

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 14
REFINERY SUPPLY OF LIGHT FUEL OIL
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	2,101,302	1,739,036	1,321,525	1,958,274	1,798,179
Receipts from Other Provinces	60,021	31,970	26,255	20,341	8,655
Receipts from Other Companies	2,615	41,375	59,209	128,014	1,155,919
Inventory Change	226,073	(56,302)	283,307	(195,489)	22,204
Imports	-	-	-	-	-
Inter-Product Transfers	(905,438)	(374,235)	(250,026)	(297,700)	(154,202)
TOTAL SUPPLY	1,484,573	1,381,844	1,440,270	1,613,440	2,830,755

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 15
REFINERY SUPPLY OF HEAVY FUEL OIL
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	1,919,082	1,434,912	2,071,375	2,234,866	3,070,623
Receipts from Other Provinces	14,718	777	24,383	-	1,860
Receipts from Other Companies	28,852	1,477	4,660	-	20,314
Inventory Change	(29,468)	8,764	43,196	(39,813)	(8,678)
Imports	-	-	-	77,857	-
Inter-Product Transfers	(318,435)	(9,806)	74	3,193	(61,309)
TOTAL SUPPLY	1,614,749	1,436,124	2,143,688	2,276,103	3,022,810

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 16
REFINERY SUPPLY OF ASPHALT
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	2,149,510	2,360,602	2,749,299	3,017,218	3,448,536
Receipts from Other Provinces	151,960	275,539	360,713	247,697	426,100
Receipts from Other Companies	11,235	98,841	463,799	477,635	182,178
Inventory Change	(22,715)	38,087	(214,188)	(36,515)	11,686
Imports	-	-	-	34	-
Inter-Product Transfers	2,233	5,186	(755)	7,884	18,923
TOTAL SUPPLY	2,292,223	2,778,255	3,358,868	3,713,953	4,087,423

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 17
REFINERY SUPPLY OF COKE
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	446,320	538,334	793,465	969,018	934,742
Receipts from Other Provinces	346,155	520,496	687,116	485,744	807,717
Receipts from Other Companies	-	-	-	25,460	39,822
Inventory Change	(15,698)	(18,663)	5,971	(22,645)	46,852
Imports	212,508	-	1,258	-	-
Inter-Product Transfer	3,829	-	-	(4,851)	-
TOTAL SUPPLY	993,114	1,040,167	1,487,810	1,452,726	1,829,133

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 18
REFINERY SUPPLY OF LUBRICATING OILS & GREASES
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	809,118	853,039	826,142	872,117	920,922
Receipts from Other Provinces	188,761	186,874	208,481	240,367	223,766
Receipts from Other Companies	153,733	185,818	196,583	189,198	199,711
Inventory Change	(16,054)	95,268	680	(18,436)	(12,206)
Imports	13,756	12,323	15,868	10,801	13,339
Inter-Product Transfers	2,000	(84,268)	2,343	1,844	498
TOTAL SUPPLY	1,151,314	1,249,054	1,250,097	1,295,891	1,346,030

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 19
REFINERY SUPPLY OF STILL GAS
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	1,893,073	1,874,386	2,064,369	2,166,480	2,183,331
Receipts from Other Provinces	-	-	-	-	1,031,100
Receipts from Other Companies	146,600	496,700	682,100	900,100	-
Inventory Change	-	-	-	-	-
Imports	-	-	-	-	-
Inter-Product Transfers	-	-	-	-	-
TOTAL SUPPLY	2,039,673	2,371,086	2,746,469	3,066,580	3,214,431

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 20
REFINERY SUPPLY OF OTHER PRODUCTS
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	1,021,810	3,043,506	3,140,659	2,768,198	3,209,887
Receipts from Other Provinces	24,443	4,056	3,158	8,283	7,140
Receipts from Other Companies	138,531	295,918	171,329	999,113	633,654
Inventory Change	(33,497)	(833,348)	310,679	(100,429)	(250,311)
Imports	700	350	700	175	11
Inter-Product Transfers	1,608,814	1,053,742	8,071	(83,346)	(190,474)
TOTAL SUPPLY	2,760,801	3,564,224	3,634,596	3,591,994	3,409,907

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 21

REFINERY SUPPLY OF ALL PRODUCTS

ALBERTA, 1970 - 1974

(Barrels)

	1970	1971	1972	1973	1974
Refinery Production	41,197,983	45,356,810	55,175,755	61,260,668	66,620,011
Receipts from Other Provinces	1,329,148	2,076,429	1,790,620	3,075,157	2,971,032
Receipts from Other Companies	8,569,698	9,623,795	12,542,042	15,670,360	17,355,346
Inventory Change	(207,034)	(793,950)	166,044	(786,355)	(1,079,637)
Imports	239,826	21,391	19,126	473,774	15,777
Inter-Product Transfers	...	...	...	...	...
TOTAL SUPPLY	51,129,621	56,284,475	69,693,587	79,693,603	85,882,529

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

SECTION III
SHIPMENTS OF REFINED PETROLEUM PRODUCTS

DEFINITIONS

SECTION III - SHIPMENTS OF PETROLEUM PRODUCTS

(1) Shipments to Other Provinces - are those amounts of refined products that are delivered to refineries in other provinces by Alberta refineries.

(2) Shipments to Other Companies - are the volumes of refined products shipped by Alberta refineries to other refineries within the province.

(3) Exports - are the volumes of refined products that are delivered to the U.S. customers by Alberta refineries.

(4) Losses - are those amounts of refined products that are not available for distribution as a result of processing shrinkages.

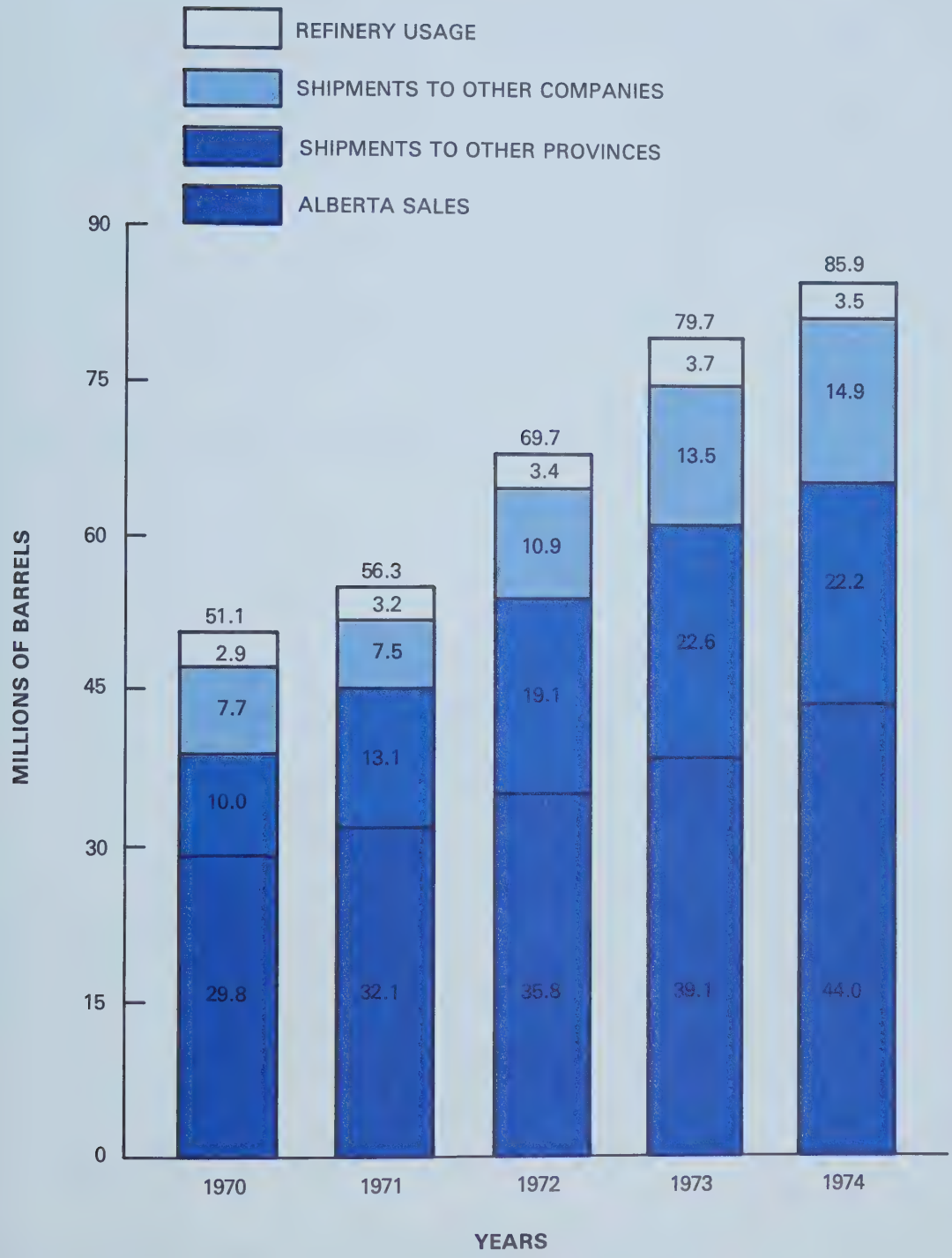
(5) Refinery Usage - refers to the volumes of products that are used by the refineries for fuel and processing needs.

(6) Alberta Sales - are the volumes of the refined products that are distributed to customers within the province.

Source: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

GRAPH 3

REFINERY SHIPMENTS OF ALL PRODUCTS, ALBERTA, 1970 - 1974



NOTE: "Losses" and "Export" volumes have been included in the total volumes. Refer to Table 38 for the actual amounts.

TABLE 22

REFINERY SHIPMENTS OF PROPANE AND PROPANE MIXES
ALBERTA, 1970 - 1974

(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	21,745	19,995	-	5,274	4,411
Shipments to Other Companies	-	-	-	-	-
Exports	-	-	-	-	-
Losses	-	175	(192)	(24)	(225)
Refinery Usage	11,800	-	-	-	-
Alberta Sales	-	137,409	516,909	585,524	721,125
TOTAL SHIPMENTS	33,545	157,579	516,717	590,774	725,311

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 23

REFINERY SHIPMENTS OF BUTANE AND BUTANE MIXES
ALBERTA, 1970 - 1974

(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	134,659	-	-	5,274	3,836
Shipments to Other Companies	-	-	3,391	-	-
Exports	-	-	-	-	287,974
Losses	(4)	-	(886)	(1,944)	(666)
Refinery Usage	-	10	-	-	9
Alberta Sales	167,772	95,906	71,155	34,674	12,247
TOTAL SHIPMENTS	302,427	95,916	73,660	38,004	303,400

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 24

REFINERY SHIPMENTS OF PETROCHEMICAL FEEDSTOCKS
ALBERTA, 1970 - 1974

(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	-	-	-	-	1,925
Shipments to Other Companies	-	-	7,872	-	-
Exports	-	-	-	-	-
Losses	-	57	(87)	(42)	96
Refinery Usage	-	-	-	-	-
Alberta Sales	3,262	3,343	19,467	43,420	38,485
TOTAL SHIPMENTS	3,262	3,400	27,252	43,378	40,506

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 25

REFINERY SHIPMENTS OF NAPTHA SPECIALTIES
ALBERTA, 1970 - 1974

(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	29,885	37,227	54,193	48,235	47,536
Shipments to Other Companies	1,078	1,202	13,618	23,893	22,442
Exports	-	-	-	-	-
Losses	177	968	(542)	702	6,072
Refinery Usage	1,599	2,037	655	4,207	9,107
Alberta Sales	73,781	79,659	63,339	72,780	74,788
TOTAL SHIPMENTS	106,520	121,093	131,263	149,817	159,945

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 26
REFINERY SHIPMENTS OF AVIATION GASOLINE
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	177,230	111,034	131,000	290,776	216,906
Shipments to Other Companies	25,160	16,025	16,406	59,267	128,976
Exports	-	-	-	-	-
Losses	778	5,472	412	(9,958)	(15,516)
Refinery Usage	123	149	13	6	3
Alberta Sales	151,938	139,687	113,443	133,176	124,105
TOTAL SHIPMENTS	355,229	272,367	261,274	473,267	454,474

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 27
REFINERY SHIPMENTS OF MOTOR GASOLINE
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	2,414,297	4,490,904	7,243,539	9,536,102	9,346,597
Shipments to Other Companies	5,278,189	5,650,863	7,517,009	9,113,698	9,567,531
Exports	-	-	-	338,148	210,307
Losses	665,885	191,011	296,856	307,168	441,195
Refinery Usage	10,604	16,571	13,742	17,339	12,778
Alberta Sales	16,594,115	17,162,985	18,030,052	19,671,118	21,201,285
TOTAL SHIPMENTS	24,963,090	27,512,334	33,101,198	38,983,573	40,779,693

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 28
REFINERY SHIPMENTS OF AVIATION TURBO FUEL
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	243,301	163,795	342,044	691,484	328,458
Shipments to Other Companies	32,731	76,774	114,922	243,136	100,476
Exports	-	-	-	-	-
Losses	7,590	27,585	14,720	(13,281)	49,988
Refinery Usage	48	96	55	340	372
Alberta Sales	1,639,969	1,740,440	1,978,756	2,302,273	2,907,790
TOTAL SHIPMENTS	1,923,639	2,008,690	2,450,497	3,223,952	3,387,084

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 29
REFINERY SHIPMENTS OF KEROSENE & STOVE OIL
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	283,342	392,908	536,248	428,031	476,252
Shipments to Other Companies	198,818	204,010	240,977	266,267	282,599
Exports	-	-	-	-	-
Losses	8,252	9,583	5,827	20,881	6,497
Refinery Usage	467	373	1,002	909	811
Alberta Sales	550,483	538,781	534,136	517,232	489,141
TOTAL SHIPMENTS	1,041,362	1,145,655	1,318,190	1,233,320	1,255,300

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 30
REFINERY SHIPMENTS OF DIESEL FUEL OIL
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	2,067,258	3,499,264	6,271,634	7,341,519	6,950,139
Shipments to Other Companies	1,743,380	909,931	2,272,480	2,970,401	3,406,379
Exports	-	-	-	37,931	5,912
Losses	36,550	62,285	103,401	121,965	156,367
Refinery Usage	14,450	18,542	17,312	14,877	20,600
Alberta Sales	6,202,462	6,656,665	7,086,911	7,460,139	8,496,930
TOTAL SHIPMENTS	10,064,100	11,146,687	15,751,738	17,946,832	19,036,327

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 31
REFINERY SHIPMENTS OF LIGHT FUEL OIL
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	590,016	524,994	457,866	531,147	764,021
Shipments to Other Companies	39,300	34,054	76,234	146,104	150,806
Exports	-	-	-	-	-
Losses	(36,916)	1,232	6,837	8,923	19,190
Refinery Usage	726	506	2,016	1,359	1,391
Alberta Sales	891,447	821,058	897,317	925,907	1,895,347
TOTAL SHIPMENTS	1,484,573	1,381,844	1,440,270	1,613,440	2,830,755

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 32
REFINERY SHIPMENTS OF HEAVY FUEL OIL
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	554,278	409,763	519,193	568,061	1,351,004
Shipments to Other Companies	31,866	79,152	354,597	359,269	702,088
Exports	53,817	37,555	-	412	814
Losses	2,891	(1,066)	283	(374)	3,344
Refinery Usage	462,404	499,847	616,089	555,362	267,218
Alberta Sales	509,493	410,873	653,526	793,373	698,342
TOTAL SHIPMENTS	1,614,749	1,436,124	2,143,688	2,276,103	3,022,810

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 33
REFINERY SHIPMENTS OF ASPHALT
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	427,953	373,543	419,598	577,398	426,742
Shipments to Other Companies	24,514	265,809	112,492	116,287	335,798
Exports	-	947	2,871	1,207	15,554
Losses	(211)	441	(675)	(4,654)	(998)
Refinery Usage	243	1,036	19	132	11
Alberta Sales	1,839,724	2,136,479	2,824,563	3,023,583	3,310,316
TOTAL SHIPMENTS	2,292,223	2,778,255	3,358,868	3,713,953	4,087,423

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 34
REFINERY SHIPMENTS OF COKE
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	389,807	520,496	687,116	485,744	807,717
Shipments to Other Companies	-	-	-	27,826	30,071
Exports	31,248	-	-	-	-
Losses	1,250	186	(421)	(4,724)	(550)
Refinery Usage	-	-	-	-	-
Alberta Sales	570,809	519,485	801,115	943,880	991,895
TOTAL SHIPMENTS	993,114	1,040,167	1,487,810	1,452,726	1,829,133

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 35
REFINERY SHIPMENTS OF LUBRICATING OILS & GREASES
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	521,894	573,257	556,303	552,205	562,878
Shipments to Other Companies	158,788	154,139	161,495	168,358	166,548
Exports	-	-	-	-	-
Losses	870	760	4,095	(1,337)	2,673
Refinery Usage	5,311	4,817	6,197	4,623	5,840
Alberta Sales	464,451	516,081	522,007	572,042	608,091
TOTAL SHIPMENTS	1,151,314	1,249,054	1,250,097	1,295,891	1,346,030

SOURCE: Statistics Canada, "Refined Petroleum Products, 45-004, Monthly.

TABLE 36

REFINERY SHIPMENTS OF STILL GAS
ALBERTA, 1970 - 1974

(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	-	-	-	-	-
Shipments to Other Companies	-	-	-	-	-
Exports	-	-	-	-	-
Losses	-	-	-	-	-
Refinery Usage	2,039,673	2,371,086	2,746,469	3,066,580	3,214,431
Alberta Sales	-	-	-	-	-
TOTAL SHIPMENTS	2,039,673	2,371,086	2,746,469	3,066,580	3,214,431

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 37

REFINERY SHIPMENTS OF OTHER PRODUCTS
ALBERTA, 1970 - 1974

(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	2,156,925	2,021,314	1,896,085	1,563,490	898,369
Shipments to Other Companies	171,378	147,018	-	-	347
Exports	-	-	-	-	-
Losses	(17,084)	11,056	(9,068)	3,456	67,760
Refinery Usage	312,364	263,545	44,683	7,753	14,379
Alberta Sales	137,218	1,121,291	1,702,896	2,017,295	2,429,052
TOTAL SHIPMENTS	2,760,801	3,564,224	3,634,596	3,591,994	3,409,907

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

TABLE 38
REFINERY SHIPMENTS OF ALL PRODUCTS
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Shipments to Other Provinces	10,012,590	13,138,494	19,114,819	22,624,740	22,186,791
Shipments to Other Companies	7,705,202	7,538,977	10,891,493	13,494,506	14,894,061
Exports	85,065	38,502	2,871	377,698	520,561
Losses	670,028	309,745	420,560	426,757	735,227
Refinery Usage	2,859,812	3,178,615	3,448,252	3,673,487	3,546,950
Alberta Sales	29,796,924	32,080,142	35,815,592	39,096,416	43,998,939
TOTAL SHIPMENTS	51,129,621	56,284,475	69,693,587	79,693,603	85,882,529

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.

SECTION IV
CONSUMPTION OF PETROLEUM PRODUCTS

DEFINITIONS

SECTION IV - CONSUMPTION OF PETROLEUM PRODUCTS

The following definitions are related to the consumer categories to which refineries market their products in Alberta. Each category is independent of the others in terms of volume consumption and type of consumer.

(1) Canadian Airlines - includes all sales of aviation fuels in Alberta to all Canadian scheduled and non-scheduled, passenger and cargo carriers, irrespective of whether the aircraft is involved in domestic or foreign service or destination.

(2) Foreign Airlines - includes all sales of aviation fuels in Alberta to all foreign scheduled and non-scheduled, passenger and cargo carriers, irrespective of service or destination.

(3) Foreign Governments - includes all sales of aviation fuels in Alberta to foreign governments or agencies of foreign governments (e.g. NORAD, NATO).

(4) Federal and Provincial Governments - includes all sales of products to those governments in Alberta and agencies (excluding crown corporations) and includes the Canadian Armed Forces, federal and provincial police forces and any federal or provincial marine activities.

(5) General Flying and Other - includes all sales in Alberta of aviation products not included above.

(6) Adjustments - these volumes are revisions to the "Total Alberta Sales" figures, for each product in Section IV. The "Adjustments" show the total amount of revisions that have been incorporated within the individual categories since the data for the "Alberta Sales" in Section III was compiled. Therefore, the inclusion of the "Adjustments" is necessary in order to match the unadjusted "Alberta Sales" data from Section III to the "Total Alberta Sales" in Section IV.

(7) Retail Pump Outlets - are all sales in Alberta of motor gasoline, diesel fuel oil and lubricating oils and greases to retail outlets (including marinas) irrespective of the type of ownership or operation. The volumes include the known estimate of such sales of agents, jobbers and resellers.

(8) Farms - includes all sales of motor gasoline, diesel fuel oil, kerosene, lubricating oils and greases and light fuel oil, in Alberta to farm customers, including agents, jobbers and resellers.

(9) Construction Industry - includes all sales of motor gasoline, diesel fuel oil, kerosene, heavy fuel oil, light fuel oil and lubricating oils and greases to construction and contracting companies in Alberta for on-and-off highway use. This category includes domestic, commercial and industrial building contractors, paving and pipeline contractors.

(10) Forest Products and Paper Industry - includes all sales of motor gasoline, kerosene, diesel fuel oil, heavy fuel oil, light fuel oil, and lubricating oils and greases for on-and-off highway use to individual operators or integrated companies engaged in logging, sawmill, plywood, planing, pulp and paper operations, etc. within Alberta.

(11) Mining, Smelting, Quarrying and Petroleum Exploration and Development - includes all sales of motor gasoline, kerosene, diesel fuel oil, heavy fuel oil, light fuel oil and lubricating oils and greases for on-and-off highway use to individual operators or integrated companies engaged in mining, smelting, refining, iron and steel mill, sand, gravel and quarrying; oil and gas propsecting, drilling and well services within Alberta.

(12) Commercial Transport - includes all sales of motor gasoline, diesel fuel oil, and lubricating oils and greases for on-and-off highway and to trucking firms, privately operated or for hire; public and private bus transport companies (both urban and inter-urban) and taxi fleets.

(13) Other Industries - includes all sales of motor gasoline, diesel fuel oil, kerosene, heavy fuel oil, asphalt and light fuel oil to all other manufacturing, wholesale, retail, service and administration industries and agencies that have not been included above.

(14) Unclassified - includes all sales of motor gasoline, kerosene, diesel fuel oil, heavy fuel oil, light fuel oil, lubricating oils and greases in Alberta that have not been classified according to any of the above categories.

(15) Residential, Apartment and Farm - includes all sales of kerosene, heavy fuel oil and light fuel oil for all uses to domestic, residential, apartment and farm customers in Alberta. The figures include the known estimate of such sales by agents, resellers, jobbers, etc.

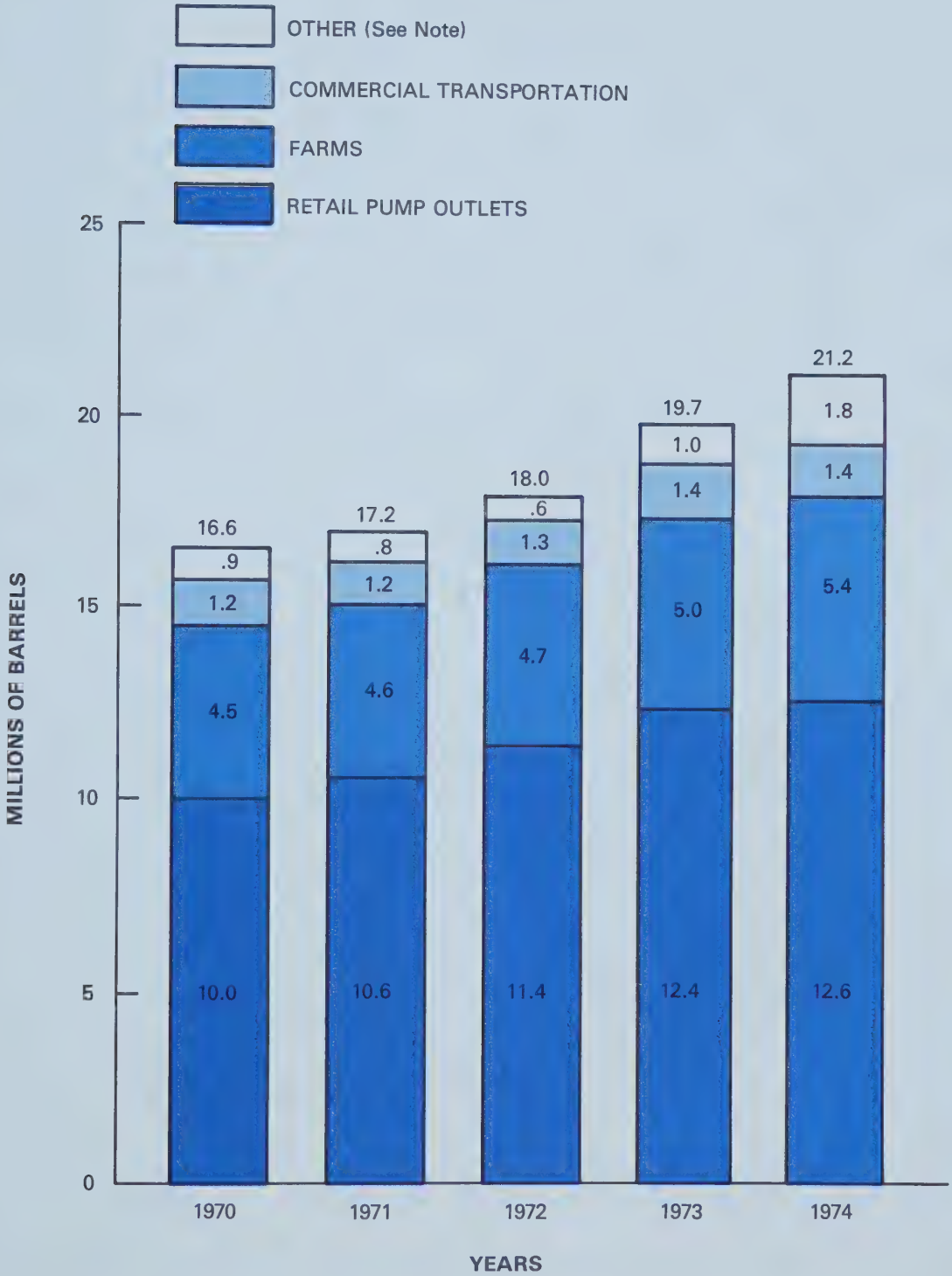
(16) Railways - includes all sales of kerosene, diesel, fuel oil, heavy fuel oil, light fuel oil and lubricating oils and greases for on-and-off highway use to railways operating in Canada for the operation of the railway itself and related railway services. This excludes the road transport subsidiaries, hotels and other non-related services.

(17) Marine - includes all sales of kerosene, diesel fuel oil, heavy fuel oil, light fuel oil and lubricating oils and greases, for all uses delivered in Alberta to Canadian or foreign owned, for hire, marine shipping companies, including subsidiaries of railway companies.

Source: Statistics Canada, "Refined Petroleum Products, Consumption of Petroleum Products", 45-208, Annual.

GRAPH 4

ALBERTA CONSUMPTION OF MOTOR GASOLINE, 1970 - 1974



NOTE: "Other" includes consumption by Federal and Provincial Governments, Construction Industry, Forest Products Industry, Mining and Other Industrial consumption. Refer to Table 40 for details.

TABLE 39
ALBERTA CONSUMPTION OF AVIATION GASOLINE
1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974(P)
Canadian Airlines	57,864	56,161	25,230	17,940	10,756
Foreign Airlines	44	-	-	-	1
Foreign Governments	-	-	-	4	100
Federal & Provincial Governments	26,509	20,041	17,271	16,625	19,736
General Flying and Other	67,319	64,789	70,942	98,607	93,512
Adjustments	202	(1,304)	-	-	-
TOTAL ALBERTA SALES	151,938	139,687	113,443	133,176	124,105

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-208, Annual.

TABLE 40
ALBERTA CONSUMPTION OF MOTOR GASOLINE
1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974(P)
Retail Pump Outlets	9,965,546	10,590,385	11,437,809	12,358,936	12,573,060
Farms	4,535,069	4,587,005	4,686,207	4,981,518	5,352,457
Federal & Provincial Gov'ts	212,353	217,434	246,830	222,998	208,784
Construction Industry	444,722	347,367	350,815	373,722	421,798
Forest Prod. & Paper Industry	65,893	58,280	61,366	59,676	59,646
Mining, Smelting, Quarrying, & Petroleum Exploration & Dev.	110,702	125,798	134,773	132,959	153,504
Commercial Transportation	1,174,316	1,176,064	1,276,931	874,058	1,091,609
Other	-	-	-	496,723	344,552
Unclassified	82,276	4,886	127	2,376	819,605
Adjustments	3,238	55,766	(164,806)	168,152	176,270
TOTAL ALBERTA SALES	16,594,115	17,162,985	18,030,052	19,671,118	21,201,285

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-208, Annual.

TABLE 41
ALBERTA CONSUMPTION OF AVIATION TURBO FUEL
1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974(P)
Canadian Airlines	1,156,669	1,176,245	1,299,844	1,573,257	1,989,803
Foreign Airlines	17,210	12,289	17,420	59,290	125,041
Foreign Governments	-	-	14,687	22,817	27,953
Federal & Provincial Gov'ts	420,517	485,505	572,193	563,826	586,101
General Flying & Other	45,307	66,456	74,612	83,083	178,892
Adjustments	266	(55)	-	-	-
TOTAL ALBERTA SALES	1,639,969	1,740,440	1,978,756	2,302,273	2,907,790

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-208, Annual.

TABLE 42
ALBERTA CONSUMPTION OF KEROSENE & STOVE OIL
1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974(P)
Residential, Apt. & Farm Use	321,108	332,576	276,117	262,601	265,999
Federal & Provincial Gov'ts	15,280	16,798	11,863	8,954	12,130
Construction Industry	22,086	19,807	20,499	16,235	12,622
Forest Prod. & Paper Industry	8,303	8,579	6,105	7,042	5,757
Mining, Smelting, Quarrying & Petroleum Exploration & Dev.	32,221	34,033	113,067	104,180	73,993
Railways	20,407	17,796	18,683	22,553	19,054
Marine	4,889	5,138	2,163	3,293	2,863
Commercial Heating	109,008	103,797	50,690	18,454	17,081
Other Industrial	*	*	*	28,495	37,098
Unclassified	17,181	-	270	7,799	91
Adjustments	-	257	34,679	37,626	42,453
TOTAL ALBERTA SALES	550,483	538,781	534,136	517,232	489,141

*In 1970, 1971 and 1972, the volumes shown for "Commercial Heating" include "Other Industrial".
SOURCE: Statistics Canada, "Refined Petroleum Products", 45-208, Annual.

TABLE 43
ALBERTA CONSUMPTION OF DIESEL FUEL OIL
1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974(P)
Retail Pump Outlets	349,764	377,465	384,692	446,226	521,004
Farms	1,429,749	1,494,974	1,510,027	1,656,835	1,939,272
Federal & Provincial Gov'ts	104,285	105,849	117,349	116,822	126,369
Construction Industry	717,765	810,904	761,957	821,883	1,141,908
Forest Prod. & Paper Industry	89,367	105,162	125,183	144,601	141,590
Mining, Smelting, Quarrying & Petroleum Exploration & Dev.	463,387	473,859	564,451	639,997	751,619
Railways	2,043,919	2,290,596	2,415,938	2,112,492	2,002,692
Marine	3,192	3,581	204	83	273
Commercial Transport	955,839	982,068	1,192,046	1,111,941	1,371,877
Other	*	*	*	373,850	468,756
Unclassified	455,079	3,544	-	18,995	21,971
Adjustments	(409,884)	8,663	15,064	16,414	9,599
TOTAL ALBERTA SALES	6,202,462	6,656,665	7,086,911	7,460,139	8,496,930

*In 1970, 1971 and 1972, the volumes shown for "Commercial Transport" include "Other".
SOURCE: Statistics Canada, "Refined Petroleum Products", 45-208, Annual.

TABLE 44
ALBERTA CONSUMPTION OF LIGHT FUEL OIL
1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974(P)
Residential, Apt. & Farm Use	470,024	617,023	679,016	712,448	529,863
Federal & Provincial Gov'ts	21,713	21,404	23,508	23,339	29,814
Construction Industry	46,124	18,127	31,268	21,830	20,045
Forest Prod. & Paper Industry	10,649	9,579	10,724	14,820	15,405
Mining, Smelting, Quarrying & Petroleum Exploration & Dev.	99,433	123,274	109,181	172,739	118,091
Railways	13,102	10,494	11,010	581,383	14,979
Marine	1,533	350	168	44	-
Commercial Heating	85,201	72,932	70,004	14,440	31,327
Other Industrial	*	*	*	54,333	44,357
Unclassified	186,334	-	2,802	12	70,413
Adjustments	(42,666)	(52,125)	(40,364)	(669,481)	1,021,053
TOTAL ALBERTA SALES	891,447	821,058	897,317	925,907	1,895,347

* In 1970, 1971 and 1972, the volumes shown for "Commercial Heating" include "Other Industrial".
SOURCE: Statistics Canada, "Refined Petroleum Products", 45-208, Annual.

TABLE 45
ALBERTA CONSUMPTION OF HEAVY FUEL OIL
1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974(P)
Residential, Apt. & Farm Use	-	-	-	-	-
Federal & Provincial Gov'ts	93,940	81,663	808	170,520	178,436
Construction Industry	52,047	155,441	303,439	94,993	87,736
Forest Prod. & Paper Industry	5,033	3,221	27,838	30,020	28,778
Mining, Smelting, Quarrying & Petroleum Exploration & Dev.	60,839	138	-	120,116	1,064
Railways	55,726	70,548	160,178	132,165	104,437
Marine	20,683	9,663	83,512	-	59,512
Commercial Heating	217,443	90,199	77,520	111,983	37,807
Other Industrial	*	*	*	29,459	83,890
Unclassified	5,033	-	-	-	926
Adjustments	(1,251)	-	231	104,117	115,756
TOTAL ALBERTA SALES	509,493	410,873	653,526	793,373	698,342

*In 1970, 1971 and 1972, the volumes shown for "Commercial Heating" include "Other Industrial".
SOURCE: Statistics Canada, "Refined Petroleum Products", 45-208, Annual.

TABLE 46
ALBERTA CONSUMPTION OF ASPHALT
1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974(P)
Paving	1,502,552	1,795,555	2,323,855	1,537,041	2,677,612
Manufacturing	354,126	385,749	495,109	561,306	572,007
Other	5,493	5,045	5,599	47,836	60,697
Adjustments	(22,447)	(49,870)	-	877,400	-
TOTAL ALBERTA SALES	1,839,724	2,136,479	2,824,563	3,023,583	3,310,316

SOURCE: Statistics Canada, "Refined Petroleum Products", 45-208, Annual.

TABLE 47
ALBERTA CONSUMPTION OF LUBRICATING OILS & GREASES
1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974(P)
Retail Pump Outlet	111,259	126,242	133,701	146,356	80,626
Farms	103,528	129,103	108,862	128,900	121,830
Federal & Provincial Gov'ts	6,589	5,798	4,364	5,119	6,668
Construction Industry	97,111	25,942	18,681	22,325	47,591
Forest Prod. & Paper Industry	29,843	4,822	6,079	11,026	11,658
Mining, Smelting, Quarrying & Petroleum Exploration & Dev.	37,681	30,516	32,652	35,813	52,114
Railways	38,980	40,439	41,781	45,451	56,996
Marine	242	21	19	23	10
Other Transportation	41,426	157,528	162,044	186,646	217,258
Unclassified	28,025	6	16,666	1,615	15,318
Adjustments	(30,233)	(4,336)	(2,842)	(11,232)	(1,978)
TOTAL ALBERTA SALES	464,451	516,081	522,007	572,042	608,091

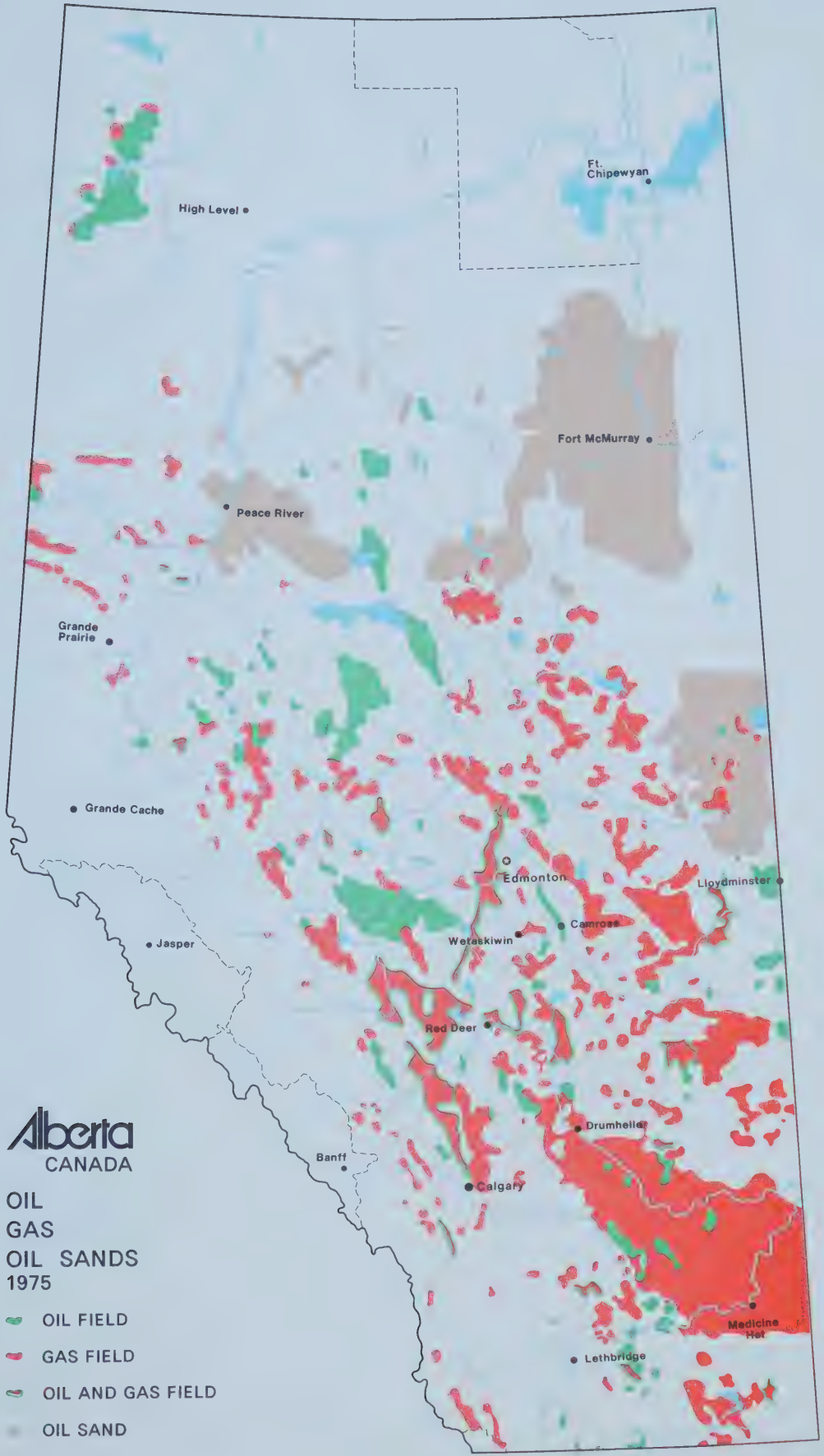
SOURCE: Statistics Canada, "Refined Petroleum Products", 45-208, Annual.

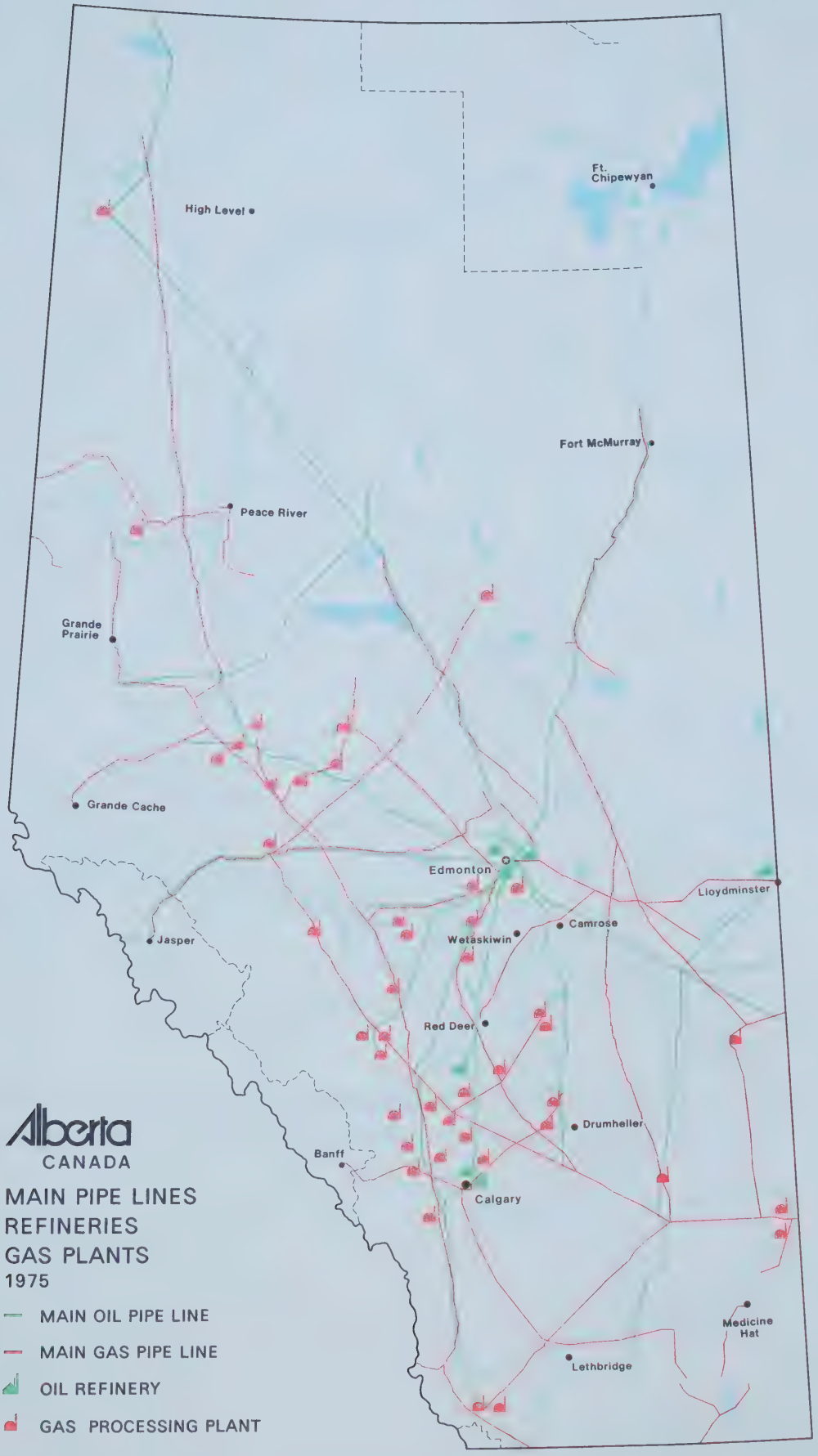
TABLE 48
CONSUMPTION OF ALL PRODUCTS
ALBERTA, 1970 - 1974
(Barrels)

	1970	1971	1972	1973	1974
Propane and Propane Mixes	-	137,409	516,909	585,524	721,125
Butane and Butane Mixes	167,772	95,906	71,155	34,674	12,247
Petrochemical Feedstocks	3,262	3,343	19,467	43,420	38,485
Naphtha Specialties	73,781	79,659	63,339	72,780	74,788
Aviation Gasoline	151,938	139,687	113,443	133,176	124,105
Motor Gasoline	16,594,115	17,162,985	18,030,052	19,671,118	21,201,285
Aviation Turbo Fuel	1,639,969	1,740,440	1,978,756	2,302,273	2,907,790
Kerosene and Stove Oil	550,483	538,781	534,136	517,232	489,141
Diesel Fuel Oil	6,202,462	6,656,665	7,086,911	7,460,139	8,496,930
Light Fuel Oil	891,447	821,058	897,317	925,907	1,895,347
Heavy Fuel Oil	509,493	410,873	653,526	793,373	698,342
Asphalt	1,839,724	2,136,479	2,824,563	3,023,583	3,310,316
Coke	570,809	519,485	801,115	943,880	991,895
Lubricating Oils and Greases	464,451	516,081	522,007	572,042	608,091
Still Gas	-	-	-	-	-
Other Products	137,218	1,121,291	1,702,896	2,017,295	2,429,052
TOTAL	29,796,924	32,080,142	35,815,592	39,096,416	43,998,939

SOURCE: (1) Statistics Canada, "Refined Petroleum Products", 45-004, Monthly.
(2) Statistics Canada, "Refined Petroleum Products", 45-208, Annual.

APPENDIX


Ft. Chipewyan
High Level
Fort McMurray
Peace River
Grande Prairie
Grande Cache
Edmonton
Lloydminster
Camrose
Wetaskiwin
Jasper
Red Deer
Drumheller
Banff
Calgary
Medicine Hat
Lethbridge
Alberta
CANADA
OIL
GAS
OIL SANDS
1975
OIL FIELD
GAS FIELD
OIL AND GAS FIELD
OIL SAND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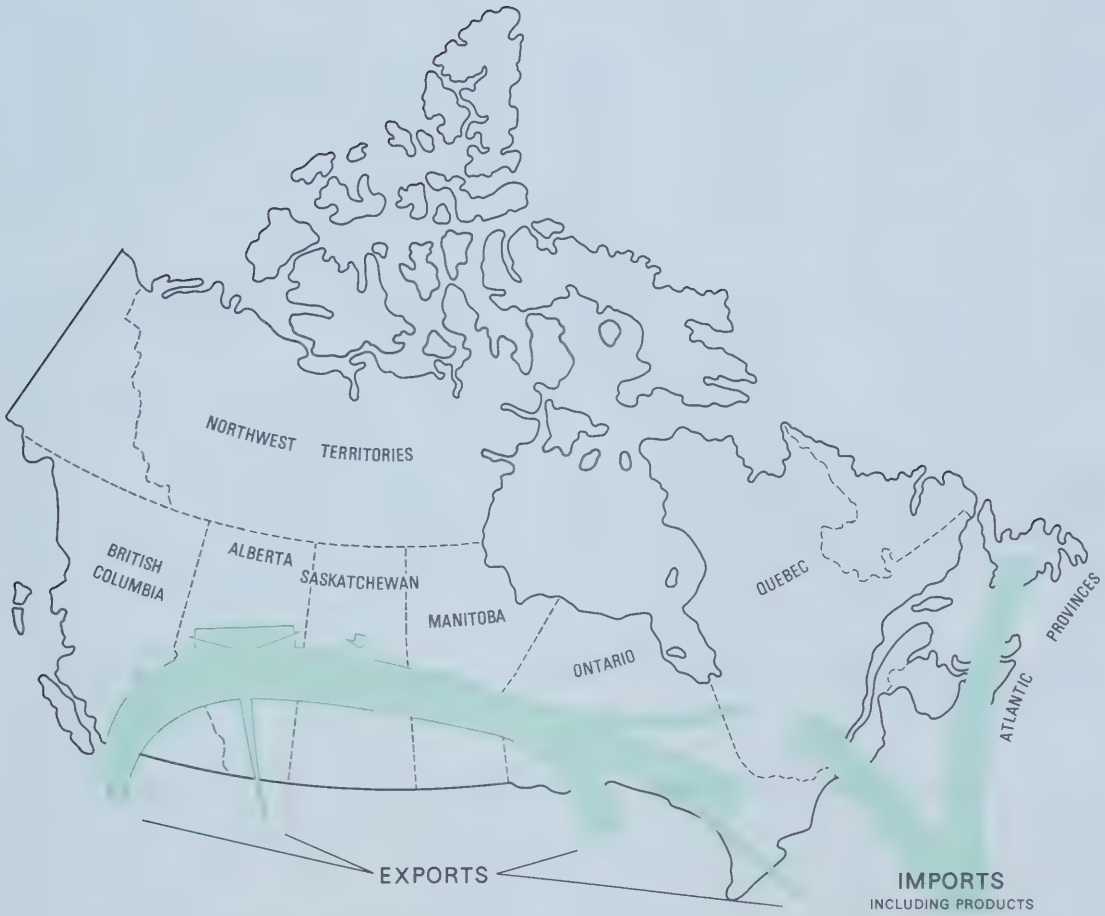
Fort McMurray
Peace River
Grande Prairie
Grande Cache
Edmonton
Lloydminster
Camrose
Wetaskiwin
Jasper
Red Deer
Drumheller
Banff
Calgary
Medicine Hat
Lethbridge
Alberta
CANADA
MAIN PIPE LINES
REFINERIES
GAS PLANTS
1975
MAIN OIL PIPE LINE
MAIN GAS PIPE LINE
OIL REFINERY
GAS PROCESSING PLANT



MOVEMENTS OF OIL WITHIN, TO AND FROM CANADA, 1974

CONVENTIONAL AND SYNTHETIC CRUDE OIL, PENTANES PLUS AND EQUIVALENT

TABLE 49

ALBERTA CROWN REVENUES,
EXPLORATION, DEVELOPMENT, PRODUCTION & DISTRIBUTION
PETROLEUM & NATURAL GAS

1970 - 1974

(Thousands of Dollars)

	1970	1971	1972	1973	1974
SALES OF CROWN RESERVES:					
Petroleum & Natural Gas Leases	17,374	17,286	14,796	26,612	36,640
Petroleum & Natural Gas Permits	4,905	10,594	12,858	14,344	4,025
Petroleum & Nat. Gas Reservations	4,468	10,013	10,240	12,303	14,215
Drilling Reservations	8,069	6,714	12,688	18,156	23,277
Natural Gas Licences	1,952	2,662	2,113	4,941	6,461
Natural Gas Leases	64	120	35	199	127
TOTAL SALES	36,832	47,389	52,730	76,555	84,745
RENTALS:					
Petroleum & Natural Gas	43,637	43,971	45,894	48,655	50,715
Natural Gas	1,330	1,405	1,605	1,823	1,920
TOTAL	44,967	45,376	47,499	50,478	52,635
ROYALTIES:					
Oil	106,009	131,788	156,829	266,498	799,451
Gas	17,537	20,990	22,013	30,612	74,559
Gas Products	12,871	14,944	17,442	26,584	89,986
TOTAL	136,417	167,722	196,284	323,694	963,996
PETROLEUM TAX	-	-	-	68,943	88
REVENUE TOTALS	218,216	260,487	296,513	519,670	1,101,464

SOURCE: Alberta Energy and Natural Resources, "Alberta Oil and Gas Picture, 1947 - 1974".

TABLE 50

AVERAGE PRICES OF CRUDE OIL AND EQUIVALENT ALBERTA, MONTHLY, 1974 & 1975

(Dollars per Barrel)

	CRUDE OIL AND CONDENSATE		PENTANES PLUS		SYNTHETIC CRUDE OIL	
	1974	1975	1974	1975	1974	1975
January	3.81	6.52	4.23	6.90	4.35	6.95
February	3.81	6.50	4.23	6.78	4.32	7.11
March	3.81	6.47	4.23	6.78	4.29	6.95
April	6.51	6.49	6.93	6.79	6.78	6.98
May	6.51	6.45	6.93	6.62	6.96	6.93
June	6.48	6.50	6.93	6.60	7.04	6.94
July	6.52	7.97	6.93	8.13	7.02	8.01
August	6.50	7.94	6.88	8.10	7.00	8.52
September	6.50	7.98	6.92	8.09	7.00	8.40
October	6.51	7.96	6.91	8.10	6.97	8.40
November	6.51	7.98	6.92	8.10	7.00	8.41
December	6.51	7.98	6.90	8.10	6.93	8.41
Annual	5.77	7.36	6.21	7.41	6.45	8.10

NOTES: (1) The average price is based upon all qualities and grade of products with weighting by volume.

(2) The average prices for December 1975 have been estimated by the Alberta Bureau of Statistics and are subject to revision.

SOURCE: Energy Resources Conservation Board "Summary of Monthly Statistics, Alberta Energy Resources Industries".

TABLE 51
SELECTED PETROLEUM STATISTICS
ALBERTA, 1974 & 1975 (P)
(Thousands of Barrels)

	1974(1)	1975(3)	PER CENT CHANGE
PRODUCTION OF CRUDE OIL AND EQUIVALENT:			
Conventional Crude Oil (Net)	497,646	416,952	(16.2)
Synthetic Crude Oil	16,880	15,171	(10.1)
Condensate	911	737	(19.1)
Pentanes Plus	56,713	52,985	(6.6)
TOTAL PRODUCTION	572,150	485,845	(15.1)
DISPOSITION OF CRUDE OIL:			
Other Provinces:			
British Columbia	32,475	34,273	5.5
Saskatchewan	17,620	13,427	(23.8)
Manitoba	9,038	7,838	(13.3)
Ontario	135,608	131,704	(2.9)
Quebec and Maritimes	23,525	2,337	(90.1)
TOTAL OTHER PROVINCES	218,266	189,579	(13.1)
Exports	289,426	221,974	(23.3)
Alberta Refineries	65,064	77,134	18.6
Losses and Adjustments	(606)	(2,842)	369.0
TOTAL DISPOSITION	572,150	485,845	(15.1)
REFINERY SUPPLY ALBERTA: (2)			
Refining Production	66,620	72,516	8.9
Receipts From Other Provinces	2,971	1,871	(37.0)
Receipts From Other Companies	17,355	15,709	(9.5)
Inventory Change	(1,080)	864	119.9
Imports	16	16	-
TOTAL SUPPLY	85,882	90,976	5.9
REFINERY DISPOSITION: (2)			
Shipments to Other Provinces	22,187	24,246	9.3
Shipments to Other Companies	14,894	15,046	1.0
Exports	521	244	(53.2)
Losses	735	(1,135)	(254.4)
Refinery Usage	3,547	3,598	1.4
Alberta Sales	43,999	48,977	11.3
TOTAL DISPOSITION	85,882	90,976	5.9

SOURCE: (1) 1974 data, Alberta Energy Resources Conservation Board, "Alberta Oil and Gas Industry, Annual and Cumulative Statistics", 1974.

(2) Statistics Canada, 1974.

(3) Alberta Bureau of Statistics.

TABLE 52
SELECTED CANADIAN PETROLEUM STATISTICS
1970 - 1974
(Thousands of Barrels)

	1970	1971	1972	1973	1974
PRODUCTION CRUDE OIL & EQUIVALENT:					
Crude Oil (Net)	448,253	476,306	541,920	636,040	596,722
Synthetic Crude Oil	12,082	15,540	18,820	18,446	16,880
Condensate	846	893	1,237	1,367	1,175
Pentanes Plus	43,305	46,005	59,593	60,692	58,031
TOTAL	504,486	538,744	621,570	716,545	672,808
DISPOSITION OF CRUDE OIL:					
Atlantic Provinces	-	1	-	231	3,837
Quebec	-	-	-	5,315	23,085
Ontario	134,827	135,478	137,478	148,991	166,124
Manitoba	15,592	16,304	17,482	17,004	17,430
Saskatchewan	23,360	19,496	16,174	17,705	19,516
Alberta	40,327	44,904	53,649	58,663	63,364
British Columbia	43,903	46,142	47,567	51,421	52,217
Northwest Territories	893	914	913	945	975
TOTAL CANADA	258,902	263,239	273,263	300,275	346,548
Exports	244,466	272,783	348,431	414,429	330,583
Change in Inventory	1,052	577	2,341	45	(314)
Adjustments, Usage & Losses	66	2,145	(2,465)	1,796	(4,009)
TOTAL DISPOSITION	504,486	538,744	621,570	716,545	672,808
IMPORTS OF CRUDE OIL:					
Altantic Provinces	50,196	73,315	97,185	112,799	127,095
Quebec	157,686	170,502	191,145	200,767	172,114
Ontario	459	409	424	490	-
TOTAL IMPORTS	208,240	244,225	288,754	314,056	299,209
TOTAL CRUDE OIL ALL SOURCES	467,242	507,464	562,017	614,331	645,757

SOURCE: Statistics Canada, "Crude Petroleum and Natural Gas Industry", 1974, Catalogue 26-213.

TABLE 53
REFINERY SUPPLY AND DISPOSITION
ALL PETROLEUM PRODUCTS, CANADA
1970 - 1974
(Thousands of Barrels)

	1970	1971	1972	1973	1974
REFINERY SUPPLY:					
Production	466,929	509,571	561,121	614,379	646,324
Receipts from Other Companies	163,150	195,860	225,342	244,330	227,676
Receipts from Other Provinces	73,235	78,090	100,005	102,170	96,692
Inventory Change	(3,229)	(5,517)	3,766	(7,754)	(13,663)
Imports	72,414	55,538	51,872	38,247	26,104
TOTAL SUPPLY	772,499	833,542	942,106	991,372	983,133
REFINERY DISPOSITION:					
Shipments to Other Provinces	73,230	78,090	100,005	102,175	96,692
Shipments to Other Companies	150,821	182,288	216,656	224,734	211,765
Exports	5,875	13,485	34,138	41,541	39,535
Losses	3,630	3,791	4,576	4,306	3,715
Refinery Usage	30,672	32,459	35,226	37,447	37,977
Sales in Canada	508,271	523,429	551,505	581,169	593,449
TOTAL DISPOSITION	772,499	833,542	942,106	991,372	983,133

SOURCE: Statistics Canada "Refined Petroleum Products", 45-004, Monthly.

TABLE 54
REFINERY CAPACITY, CRUDE OIL, CANADA
1970 - 1974
(Barrels Per Day)

	1970	1971	1972	1973	1974
Newfoundland	13,000	13,000	14,000	119,000	119,000
Nova Scotia	76,000	157,100	157,100	180,000	181,800
New Brunswick	50,000	120,000	120,000	120,000	114,000
Quebec	451,000	559,600	572,600	579,600	645,100
Ontario	376,500	387,200	404,200	414,200	520,700
Manitoba	47,000	48,500	48,500	49,000	48,400
Saskatchewan	80,350	68,600	66,600	71,600	78,500
Alberta	175,000	235,150	235,150	241,750	243,800
British Columbia	125,400	125,400	128,900	133,900	146,200
Northwest Territories	2,700	2,800	2,800	2,900	2,900
TOTAL CANADA	1,396,950	1,717,350	1,749,350	1,911,950	2,100,400

SOURCE: Canadian Petroleum Association, "Statistical Year Book", 1974.

TABLE 55

GROSS SALES OF GASOLINE, CANADA

1970 - 1974

(Thousands of Gallons)

PROVINCE/TERRITORY	1970	1971(1)	1972(1)	1973(1)	1974(P)
Newfoundland	84,127	92,432	102,301	123,096	125,082
Prince Edward Island	29,980	31,458	33,456	36,863	40,072
Nova Scotia	187,246	196,023	208,604	227,772	240,429
New Brunswick	166,477	172,391	188,767	206,029	220,393
Quebec	1,386,548	1,444,404	1,538,091	1,661,851	1,740,112
Ontario	2,160,216	2,223,775	2,387,928	2,560,787	2,651,924
Manitoba	283,629	284,915	303,402	324,128	340,282
Saskatchewan	341,941	354,574	359,758	380,933	405,230
Alberta	578,914	596,300	634,227	687,511	742,045
British Columbia	634,230	675,807	719,195	794,603	784,873
Yukon	9,523	10,116	10,546	10,614	10,647
Northwest Territories	9,854	7,724	8,977	9,188	9,069
TOTAL	5,872,685	6,089,919	6,495,252	7,023,375	7,310,158

NOTES: (1) Liquified petroleum gases excluded in 1971, 1972 and 1973.

(P) Preliminary data, subject to revision.

SOURCE: Statistics Canada, "The Motor Vehicle, Part II, Motive Fuel Sales", 53-218, Annual.